

Radiative Bhabha generators

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- BHLUMI 4.04
Bhlumi-linux-4.04-export_2002.11.05.tar.gz
th-96-158.pdf
- ReneSANCe 1.3.9
<https://renesance.hepforge.org/downloader?f=ReneSANCe-1.3.9.tar.gz>

Generators output for analysis

BHLUMI 4.04

easily build needs only gfortran

- Has demo.f produce th-96-158.pdf result, link 400, lib to run
- Cross-section counted for $\text{Th1} < \theta < \text{Th2}$
- Event $W_t=1$ generated for $\text{themin}=0.7*\text{Th1}$ $\text{themax}=2*\text{Th2}$

Formatted event output

- Demo-evrun .tgz
demo.f modified for event output

ReneSANCE 1.3.9

Build on root setup

- Complicated run configuration
- Bhabha run example user-install/share/renesance/examples/101/
- **Results/events_NLO.lhe** events 4-momenta of incident e^+, e^- scattered e^+, e^- , (gamma)

Radiative Bhabha Xsec, γ -4mom

BHLUMI 4.04, ReneSANCe1.3.9 comparison

- Run authored published setups
BHLUMI: demo.f
ReneSANCe: 101 ??
- Set data sets in larger angular ranges
BHLUMI 10 mRad to 100 mRad
ReneSANCe > 10 mRad

JOBS

- Select events in demo.f Th1, Th2 to confirm Xsection of both generators
- Theta of scattered e+, e-
- Opening angles of e+, e-
- Gamma PT
- Opening angles of e,gamma
- ISR gamma theta